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I claim:

1. A method of assessing speech quality comprising the steps of:

determining a first and second speech quality assessment for a first and second speech signal, the first speech signal being a distorted version of the second speech signal; and

comparing the first and second speech qualities to obtain a compensated speech quality assessment.

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- The method of claim 1 comprising the additional steps of
 prior to determining the first and second speech quality assessments,
 distorting the second speech signal to produce the first speech signal.
- The method of claim 1, wherein the first and second speech qualities are assessed using an identical technique for objective speech quality assessment.
 - 4. The method of claim 1, wherein the compensated speech quality assessment corresponds to a difference between the first and second speech qualities.

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- 5. The method of claim 1, wherein the compensated speech quality assessment corresponds to a ratio between the first and second speech qualities.
- 6. The method of claim 1, wherein the first and second speech qualities are assessed using auditory-articulatory analysis.
 - 7. The method of claim 1, wherein the step assessing the second or first speech quality comprises the steps of;

comparing articulation power and non-articulation power for the speech signal or distorted speech signal, wherein articulation and non-articulation powers

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are powers associated with articulation and non-articulation frequencies of the speech signal or distorted speech signal; and

and assessing the second or first speech quality based on the comparison.

- The method of claim 7, wherein the articulation frequencies are approximately 2~12.5 Hz.
 - 9. The method of claim 7, wherein the articulation frequencies correspond approximately to a speed of human articulation.

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- 10. The method of claim 7, wherein the non-articulation frequencies are approximately greater than the articulation frequencies.
- The method of claim 7, wherein the comparison between the articulation power and non-articulation power is a ratio between the articulation power and non-articulation power.
 - 12. The method of claim 10, wherein the ratio includes a denominator and numerator, the numerator including the articulation power and a small constant, the denominator including the non-articulation power plus the small constant.
 - 13. The method of claim 7, wherein the comparison between the articulation power and non-articulation power is a difference between the articulation power and non-articulation power.

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14. The method of claim 7, wherein the step of assessing the first or second speech quality includes the step of:

determining a local speech quality using the comparison.

The method of claim 7, wherein the local speech quality is further determined using a weighing factor based on a DC-component power.

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- 16. The method of claim 9, wherein the first or second speech quality is determined using the local speech quality.
- The method of claim 7, wherein the step of comparing articulation power and nonarticulation power includes the step of:

performing a Fourier transform on each of a plurality of envelopes obtained from a plurality of critical band signals.

10 18. The method of claim 7, wherein the step of comparing articulation power and non-articulation power includes the step of:

filtering the speech signal to obtain a plurality of critical band signals.

19. The method of claim 18, wherein the step of comparing articulation power and non-articulation power includes the step of:

performing an envelope analysis on the plurality of critical band signals to obtain a plurality of modulation spectrums.

20. The method of claim 18, wherein the step of comparing articulation power and non-articulation power includes the step of:

performing a Fourier transform on each of the plurality of modulation spectrums.